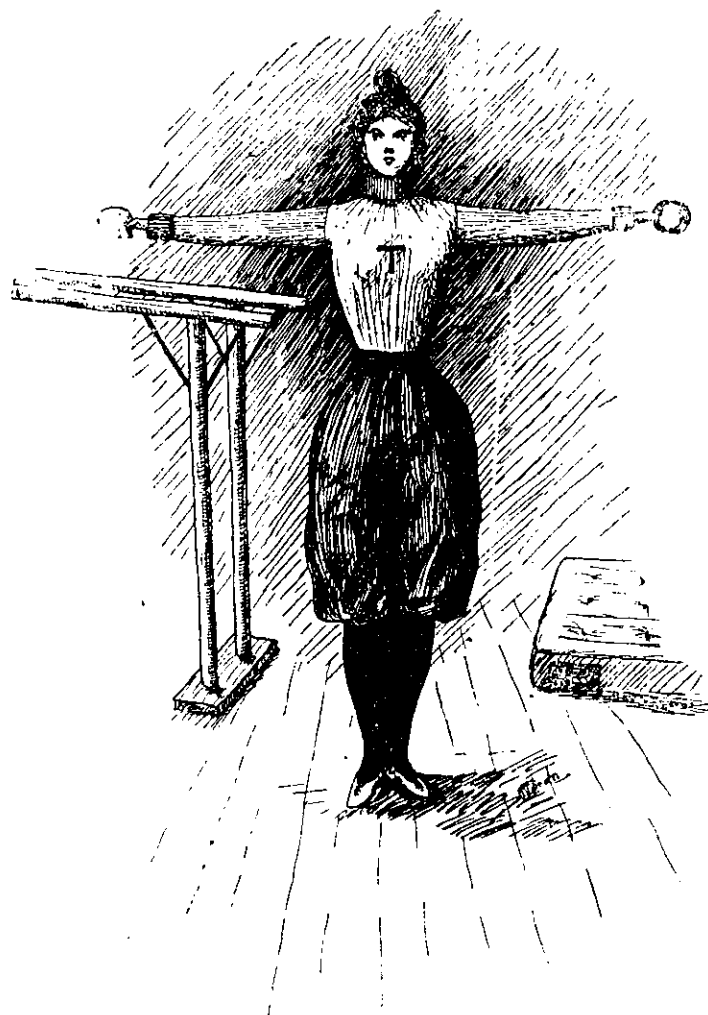


THE TECH



What we shall (*not*) expect to see in the new Co-ed Gymnasium.

VOLUME XVII.

NUMBER 20.

MARCH 17, 1898.



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THE TECH

VOL. XVII.

BOSTON, MARCH 17, 1898.

NO. 20

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

JOHN MAGEE, '99, *Editor in Chief.*

MORGAN BARNEY, 1900, *Assistant Editor in Chief.*

PAUL RAYMOND BROOKS, 1900, *Secretary.*

W. R. STRICKLAND, '98.

CLARENCE RENSHAW, '99.

GERALD MARTIN RICHMOND, '99.

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PHILIP COOMBS PEARSON, '01.

ELLIS FULLER LAWRENCE, '01.

EDWARD B. COOKE, 1901, *Business Manager.*

For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

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IT has doubtless puzzled the minds of those unfortunate students who are compelled to walk through the narrow thoroughfare (?) between Clarendon Street and Engineering Building why better sidewalks are not provided, or, indeed,

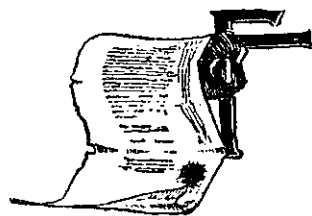
why there is no sidewalk at all for a considerable section, at any rate, in that alley. No thinking man can walk from one end to the other of this slough of despair without having considerable doubts of the humanitarian principles of somebody. We are of the opinion that Professor Bates makes an important omission in his second year English lectures

when he refrains from quoting this pleasant place as an example of the condition of the London streets in the time of Charles II.!

It is true that there is a narrow sidewalk extending for some distance on one side of the subject of this abusive article, but if some misguided Freshman has ever tried to pass someone on it, let him recall the experience! Perhaps the same Freshman's eye has been caught by that esthetic object, the barb-wire fence, on one side of the aforesaid sidewalk, or, if his eye has escaped it, it is highly probable that his umbrella or back hair has not been equally fortunate.

There are two ways of improving the present condition of the alley; one which is comparatively simple, another more expensive, but also more effective. If a crossing of logs were laid at the corner of Engineering Building, from the sidewalk to the opposite side of Trinity Court, and a board walk laid on the cow path by the Art Museum, matters would be much improved. It would be much better, however, if from the landing at the entrance to Engineering Building a flight of stairs, similar to those now in use, could be constructed facing Clarendon Street, and a broad brick sidewalk laid from the foot of the stairs to that street.

An earnest appeal is made to the Faculty to consider this matter.



FEW things could be of more importance or of greater assistance to a man who cares for his physical development, either in general strength or along special lines, than a comprehensive course in Anatomy and Physi-

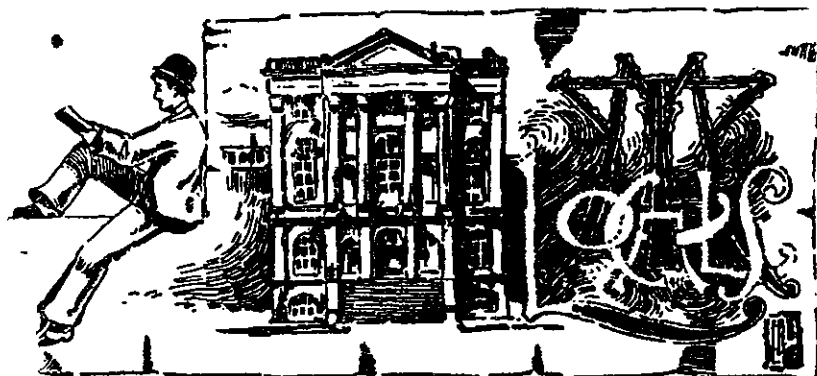
ology. To many, in fact to most of the men who frequent the gymnasiums, the measure of development is simply the number of times certain exercises can be performed without fatigue, or the number of laps they can run comfortably. In many instances these exercises are very incomplete, and the form of running faulty. If, however, the functions of each muscle were understood, they could be more intelligently used, their development more closely and understandingly watched, and proper exercises chosen to strengthen them.

To such of our athletes, therefore, who have time to spend on such an advantageous course, the importance of the subject is urged, and the Institute course in Physiology is recommended as of exceptional strength.



WE wish to call attention to the vacancies in the position of Assistant Business Manager of THE TECH. These positions are filled from the applicants who show the most business ability. A large part

of the work is in connection with the advertisements. Men desiring to try for the position should first interview the Business Manager.



Bicycles were stolen from Engineering Building last week.

Messrs. Clark, chairman, Bronson, Laws, Scully, and Rowe were appointed a committee to arrange for the Freshman dinner.

On Thursday, March 10th, the class in Industrial Chemistry visited the works of the Curtis Davis Soap Company at Cambridge.

The Athletic Association has received an invitation to enter a team in the Philadelphia relay races of this spring, but the matter will be left for the new board of officers.

The cross-country run, postponed from last December, will take place Saturday, March 26th, in the afternoon. The course will be from the gym. to Coolidge's Corner and back.

Mr. John Ritchie, Jr., addressed the Geological Club last Thursday on the "Past and Present of the Moon." Mr. Ritchie has studied this subject very thoroughly, and his lecture was of great value.

The next meeting of the Society of Arts will be held at the Institute this evening, at 8 P. M. Mrs. Ellen H. Richards, and Mr. A. T. Hopkins will present a paper on "Certain Sanitary Aspects of Jamaica."

At the last meeting of the Institute Committee C.-E. A. Winslow, '98, was authorized to present the petition for improvements in the department of Physical Training to Dr. Williams, Secretary of the Corporation. The petition has nearly a thousand signatures.

Last Thursday afternoon thirty members of the Electrical Engineering Society visited a number of dynamo and motor installations of the C. and C. Electric Company in the business portion of the town, under the guidance of Mr. Howard, the company's New England manager.

Any students finding it generally necessary to devote more time to preparation in any subject than that indicated on the subject-card, are invited to report the fact to the Secretary. It should be understood that the hours on the subject-card are for the entire term, and are thus in general to be divided by fifteen, to obtain the weekly assignment.

The Architectural Society will hold a "Smoke Talk" to-night, at the Technology Club. Mr. Robert D. Andrews will be the speaker of the evening, his subject being "Architectural Education."

It is rapidly becoming fashionable for the different factions and cliques at the Institute to settle their difficulties by means of red chalk duels in Rogers Corridor. For this ideal mode of settlement we are greatly indebted to the dignified president of the Senior Class.

Mr. Wallace Clarke Brackett of Melrose, and Miss Florence E. Barker of Arlington, were married Wednesday evening, February 23d, at Arlington. Miss Barker is the daughter of Mr. James Barker, the well-known landscape architect. Mr. Brackett is an affiliate of Sigma Alpha Epsilon, and a member of M. I. T. Class of '95.

The instructing corps of the Chemical Department recently held a meeting for the discussion of chemical topics. Prof. A. H. Gill presented a paper on the analysis of lubricating and illuminating oils, considered from the points of view of the mill-men or consumers, the insurance companies, and the oil manufacturers. This was followed by a paper on the solubility of solids in gases by Dr. Whitney.

The unsightly bulletin boards in Rogers Corridor will soon be a thing of the past. The Institute Committee has secured the promise of President Crafts that in the near future, slabs will be set in the wall below the glass bulletins on both sides of the President's office, and at the left of the Secretary's office. This will provide ample room for posting all notices, without encumbering the corridor with a dozen or more individual blackboards.

The A. A. U. has been obliged to recede from its position in regard to the registration of all amateur athletes. The scheme was abandoned only reluctantly, but the action was taken to avoid a complete break with the Intercollegiate and Interscholastic Asso-

ciations. In the future the registration need be accompanied by no fee; the advantages lost being those alone of free admission into national or association championship meetings.

An important meeting of the M. I. T. Yacht Club was held Friday. After a careful consideration of the practicability of a race in June, off New London, with the Harvard and Yale Yacht Clubs, it was unanimously voted that the Regatta Committee be empowered to confer with Harvard and Yale, and, if possible, arrange a race between the clubs. It was also voted to get out a book containing matter relating to the club and its boats before the next dinner, which comes off early in April. W. R. Bean, '99, H. A. MacPherson, 1900, and A. H. B. Jeffords, 1901, were elected to active membership.

The University Publishing Company of New York City is now issuing a series of books to which we venture to call the attention of our readers. The "Standard Literature Series" consists of all the best reading in the English language, and is produced at a cost that puts it within the reach of all. It is characterized by good paper, good type, and plenteous notes where necessary. These books will make a valuable addition to any man's library, and are especially valuable to those taking courses in English Literature. The same firm are also publishing a set of text-books which, in addition to the book required by the Institute, would be of great help to students. Noticeable among these are Nicholson's Calculus, Venable's Chemical Analysis, Venable's Geometry, and Maury's Physical Geography. These books are published in substantial cloth bindings, and are very suitable for use at Tech. Poems of Knightly Adventure, by Hale, will also prove useful to the students in the English Courses. A careful investigation of these books, which may be seen at THE TECH office, will be of interest to anyone.

During last week different sections of the Juniors, in Course II., who take forging, visited workshops in East Boston, under the direction of Mr. Lambirth.

The following mentioned drawings of the Senior architects have been on exhibition during the week in the Architectural building. The subject is "A Pantheon." First mentions: H. P. Richmond, G. P. Stevens, E. Schroeder, A. Lawrence, T. E. Tallmadge. Second mentions: E. F. Foulkes, George E. Mathews, Forbush, Everett, Little, Putnam.

The Senior statistical blanks for Class Day are being printed and will be distributed next Saturday. The success of the census depends upon the coöperation of every member of the class. One week will be allowed for filling out the blanks. All answers must be handed to the course collectors before Saturday, March 26th. Members of '98 are requested not to delay answering the questions until the last moment, but to take a few each day and answer them with thought, intelligence and originality.

At a meeting of the Technology Debating Society, on Monday, the question for discussion was, Resolved: "That the German system of compulsory military service should be adopted in the United States." H. M. Brock, '98, and T. W. Brigham, '00, spoke in the affirmative; W. H. Hubbard, '00, and M. Barney, '00, took the negative. The question for March 28th is, Resolved: "That in case of war, the injury brought to the people of our seaboard cities would be of such magnitude as to make criminally responsible the persons allowing it."

More About the New Building.

THE foundations are being laid, and it is expected that August 1st will see the completion of the new building. Departments of Architecture, Biology, Chemistry, and Mechanical Engineering will all benefit directly

by this increased space, and most of the other departments will gain space indirectly. The extension of the Laboratory of Applied Mechanics will include, besides its space in the new building, the basement of the present Architectural Building, and the third floor of the Architectural Building, vacated under the new arrangement, will be used by the department of Naval Architecture for lecture, drawing, reading, and model rooms, and will thus relieve the Mechanical Engineering Department by so much space. The fourth and fifth floors of the Architectural Building will provide for the expansion of the Civil Engineering Department. The fourth floor will be used as a drawing room by the fourth-year men, the present drawing room being used partly as an extension of the Engineering Library (which has at present room for less than a year's growth) and partly as a museum for the interesting and historic curiosities that have been accumulated by this department (worm-eaten piles, broken plates and rivets, the broken hanger of the Bussey Bridge, etc., etc.). The fifth floor of the Engineering Building will be given over practically entirely to the second-year surveying work. The drawing room of the third-year Civils, thus appropriated, is exchanged for the fifth floor of the Architectural Building.

Extensive changes will also be made in the Walker Building. The room vacated by the Laboratory of Textile Coloring will, with adjacent private laboratories and supply rooms, be turned into a chemical laboratory for third-year students, holding sixty desks. The fourth-year laboratory will be extended to include a portion of the space left vacant by the removal of the third-year laboratory and will give a capacity of thirty-eight desks, the remnant of the combined third and second year laboratory being given entirely to second-year men, with a capacity of eighty-four desks. This general rearrangement relieves the pressure on this department, and provides for a healthy future growth.

The Junior Dinner.

YOUNG'S HOTEL last Friday evening was the scene of a festive gathering. Ninety-three members of the Class of '99 assembled for their Junior Dinner and passed a most enjoyable evening. After an excellent menu had been disposed of, President Blake made a short address, dealing with the affairs and history of the class. Mr. Hammond, as toastmaster, then told a few good stories, of which he seemed to have an inexhaustible supply, and introduced Mr. Haven Sawyer, who told of the delights and drawbacks of "The Engineering Courses." Messrs. Addicks, Babcock, Case, Hazeltine, Hamlen and Palmer gave several mandolin and guitar selections, which were greatly appreciated. "Junior Week" was Mr. Hamilton's subject, and he gave some facts in regard to the history and growth of this annual festive time, after which, in response to "Athletics," Mr. Burch told of what '99 had done in that direction. Mr. Emery made a great hit by rendering several very clever little songs, as did also Mr. Caldwell with his numerous puns under the title "Vignettes." Mr. Stebbins called up the good points of many of the members of "Our Faculty," and Mr. Robinson gave some good advice in a very sensible talk on "Our Duties as Seniors." "The Scientific Course" was represented by Mr. Corse, who told, among other things, of the great musical ability of the members of Course V. Mr. Adams next sang a number of popular songs in a very catchy way and was obliged to respond to numerous encores. Mr. Renshaw gave a short account of the progress of "Technique," and announced that the price of the book would be one dollar. "Holidays" received careful attention from Mr. Patch, who told in a general way how they should be spent, and also lamented the mutual distrust which exists between the more and the less studious classes of men. A very clever and interesting little dialect sketch was then given by Mr.

Vogt, called, "A Negro's Idea of Electricity."

After some music on banjeaurine and guitar by Messrs. Addicks and White, Mr. White told of the many advantages and joys of "The Artistic Course," and pitied all of the unfortunates who had not chosen Course IV. Mr. Shumaker anticipated the future a little by giving a few "Hints for Household Happiness," and showed a remarkable familiarity with the causes of domestic unhappiness and their remedies, after which the toast list was completed by renderings of a quartette composed of Messrs. Pierce, Adams, Page, and Johnson. Several extemporaneous speeches were made by Messrs. Baily, Morse, and Page; songs were sung; class and Institute cheers were given, and the most successful dinner yet recorded in the history of '99 was ended.

COMMUNICATIONS.

The Editors do not hold themselves responsible for opinions expressed by correspondents.

TO THE EDITORS OF THE TECH:—

Very early in my course at the Institute, I found that many of the instructors in the purely technical subjects are in the habit of lecturing on the advance lesson as if they really expect to clear up some of the troublesome points. At first I tried to follow faithfully, but I soon found that if a single minor fact were overlooked or misunderstood the clew to the whole explanation perhaps was gone, and the remainder of the discussion, if not wholly lost, was much impaired. In short, I found myself thrown more and more upon the text-book, and now depend almost wholly upon it. This method has the disadvantage that much time is often wasted in trying to master difficulties which have already been discussed in the classroom.

I do not believe that the average student is prepared to derive the full benefit from a lecture until he has had a chance to read over in his reference book the subject under consideration, find for himself the knotty points, and know what he wants to get from the lecture. It does seem as if this fact must force itself upon the instructor when he sees before him a roomful of yawning and bored-looking students, of whom a

great majority, idly wondering what it is all about, are simply waiting for the end of the hour.

Some of our best instructors, at least from the students' standpoint, assign the next lesson without any other preface, and devote the whole hour to the lesson of the day.

Yours truly, '98.

TO THE EDITORS OF THE TECH:—

The proposed amendments to the Class-day election scheme by L. D. Gardner, in a recent TECH., does not seem to me at all satisfactory. It takes Article III., which is admirably arranged and easily translated, and turns it into a flimsy affair with several constructions.

In the first place it says, "All candidates for Class-day offices shall be considered candidates for the Class-day Committee, but it stops here without a provision that a man cannot be voted for for both offices. Is it not natural that the friends of a man would vote for him for both offices, so that if he lost one he might gain the other? And if his friends were in the majority would he not be elected to both offices? Still further, would not the election then be thrown into the Executive Committee? If the above disadvantage were removed by a provision that one

man cannot be voted for for two offices, then we would be confronted by the fact that it would be almost impossible for the defeated man for an office to be elected to the Committee. For as most votes are close the defeated man has available to vote for him a little over half the class. Will this majority vote for him for the Committee? I believe not, for this majority is made up of men of the opposite party (we cannot deny that there are parties) and would cast their votes for party men for the Committee.

Mr. Gardner says, "As it now stands, five or six of the best men of the class who are defeated candidates have no participation in the Class-day exercises. I am afraid he has forgotten that the five or six of the best men and the two hundred members of the Class form a very important and necessary part of the exercises and that the officers and committee are simply representatives. And is it not necessary that there be in the audience some men capable of understanding the profound wisdom of our honored historian? It seems so. Thus is shown the function of the defeated candidates, quite a large number, when you consider that the whole of the Class were candidates.

Personally I would advise the following classes to adopt the scheme as it stands without a change.

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Correspondence solicited from all who have been connected with the Institute.

'86. Mr. O. S. Doolittle, Course V., has recently been appointed division superintendent of the Philadelphia & Reading, with headquarters at Reading.

'86. Mr. Geo. W. Farmer, Course II., is roundhouse foreman for the Atchison, Topeka & Santa Fe, at Fort Madison, Iowa.

'91. Mr. Morris Knowles, Course I., is at present the resident engineer of the Filtration Commission of Pittsburg, Pa.

'92. Mr. W. S. Hutchinson, Course III., is the local manager of the American Developing and Mining Co., at Gibbonsville, Idaho.

'92. Mr. Wallace E. McCaw, Course VI., has been elected president of the McCaw Manufacturing Co., of Macon, Ga.

'93. Mr. Arthur E. Fowle, Course X., is a chemical engineer in the employ of Jobbins & Van Ruymbeke, in Aurora, Ill.

'93. Mr. Marvine Gorham, Course II., has accepted a position as mechanical engineer with the Eagle Iron Works, of Buffalo.

'96. Mr. William P. Anderson, Course III., has gone to New Mexico, to look after some mining property belonging to his father.

'97. Mr. Thomas Atwood, Course I., is in the Boston office of the Metropolitan Water Board.

'97. Mr. A. S. Crocker, Course II., is in the testing department of the George F. Blake Steam Pump Works, of East Cambridge, Mass.



Cunningham of the B. A. A., will probably coach the shot-putters for the Amherst dual games and the Worcester meet.

In last week's athletic notes, in the last paragraph, for T. C. A. A. read I. C. A. A., also put the fourth paragraph after the last.

The Hare and Hounds Club will hold their annual competition handicap run soon, and long distance men should be in training for it.

Dr. Jay W. Seaver, the physical director of the Yale gymnasium, is to be sent to Europe by Yale, to make a thorough study of European methods of physical culture. Dr. Seaver will sail on April 2d.

Subscription lists for the Athletic Association are out, and every man ought to give as much as he can afford. Our team will do us great credit if we can send it to Philadelphia, and money is necessary to do this.

The bicycle squad this year should be an exceptionally good one. Murray, who captains it, has already a reputation for fast time and place-winning, and he reports much excellent material in the classes especially among the Freshmen.

Captain Woodward, of the Sophomore baseball team, intends to begin practice soon. The team will miss Cotting in the box and Donald on third, but has a valuable addition in Everett, who caught for the Colby team last year. It is expected also that a large number of new men will come out.



SINCE the recent meeting of the Athletic Association the Lounger has experienced no little difficulty in successfully regaining his mental equilibrium. Previous to that occasion he had not been aware of the truly remarkable men holding honorable office in its service. Now, however, he has himself heard it spoken, and on no less distinguished authority than that of the remarkable gentlemen themselves; and, *mon Dieu*, who can doubt? It has been his privilege and pleasure, in the course of this life, to listen to many excellent eulogies of men not unknown to fame, but never before, if his memory serve, has he assisted at an eulogy of a gentleman by himself. Beyond this no man can go. Therefore has he yet the pleasure of waiting upon the late treasurer of the above association, in anticipation of his early demise, to congratulate him upon the thoroughness of his appreciation of his subject, and to assure him that even his dearest friend could not have acquitted himself in a more complimentary manner. And yet he did all this without the aid of the hirsute appendage, sometime familiar object in the halls of the Institute. The Lounger can only estimate valueless approximations as to what might have been the result if (and the story of Samson have weight) the extraordinary growth above mentioned had remained intact. In the course of the meeting another officer conclusively proved that the crying need of Technology is the want, not of a girl's gymnasium, but of a proper rival. Yet did he unhappily fail to designate such party. In consequence the Lounger now cheerfully throws the entire weight of making the choice upon his own already overburdened shoulders. After mature deliberation, and in light of all the records extant of all available parties, he has at last arrived at a selection which cannot fail to alleviate the pain from said crying need, and, mayhap, even cast a smile over its features. With considerable pleasure, therefore, he announces as his choice, the entirely worthy institution at present honoring the

apartments until lately occupied by our own Chauncy Hall.

The Lounger is always pleased to see more firmly cemented those bonds of amity and mutual good-will which should bind together the sons of the various American colleges. He was gratified therefore by the visit paid to Technology by two prominent sons of Eli during the early part of last week. The tourists in question were of the fold of "Sheff," one is Editor in chief of the *Scientific Monthly* and President of the Debating Society, and the ostensible purpose of his visit to Boston was to arrange an intercollegiate contest with our own budding organization. Apparently, however, he missed the officials of the Technology Debating Club, for they all of them deny any interview with him whatever. The other Yale man is of Berzelius, well-known to all natives of New Haven as "Duly."

The first notice of the arrivals of these hopefuls was a note to a well-known chemist of '98, which ran as follows: "Woke up in Boston this morning—don't know why—but never mind. Come down and play wiz us." Whereupon the '98 chemist took unto himself two other chemists more wicked than himself, and they sought out the Touraine and the sons of Eli.

Now, as already stated, the President of the Yale Debating Club did not meet the President of the Technology Debating Club, although he stayed in Boston from Tuesday to Thursday; and, strange as it may appear, the three chemists did not appear at lectures or recitations for that same space of time. What transpired during this period the Lounger has been unable exactly to discover. There are, however, vague memories of an Anti-spinach Association, whose colors were black and blue and whose insignia was the lobster. The Yale men at any rate went home on Thursday morning; and as they leaned from the car-windows they chanted in stentorian tones:—

"One March night, when we painted Boston red,
Three Tech. men put two Yale men in bed;
And when the job was done,

They turned around and said
There's been a warm time in the old town to-night!"

And thus did the red and gray triumph over the blue of Yale!

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Boston Museum.—"Jack and the Beanstalk" still continues its phenomenal and deserved success. Miss Lessing and Miss Hollins are, if

possible, more fascinating than ever before, and Ross Snow is capital as the "Dowager Queen of the Fairies."

Park Theatre.—This week, George Broadhurst's query in comedy form, "What Happened to Jones?" direct from its phenomenal run in New York, with a great company of comedians.

Boston Theatre.—Mr. Denman Thompson will return with his ever popular play, "The Old Homestead." Mr. Thompson will be supported by an excellent company.

Tremont Theatre.—The popularity of Mr. Sol Smith Russell's play, "A Bachelor's Romance," has been so great that he will present nothing else during his engagement here. Miss Nannette Comstock makes a most charming "Sylvia," and the rest of the parts are in the hands of excellent players.

Castle Square Theatre.—For this week the attraction will be a revival of the play of southern life, "Alabama," which will be recalled as one of the earliest successes of the stock company during the summer season.

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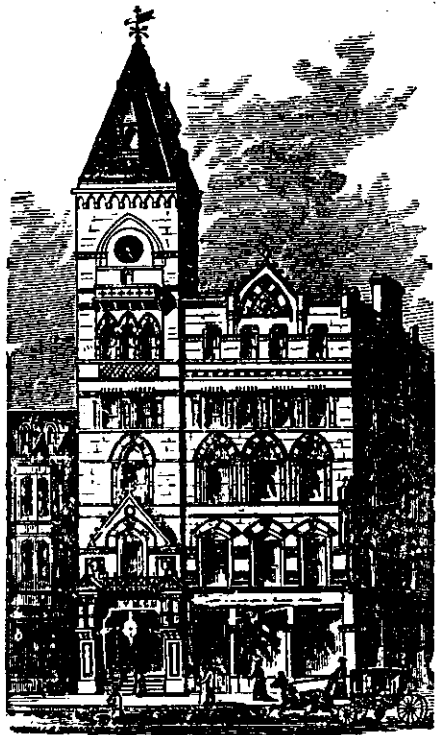
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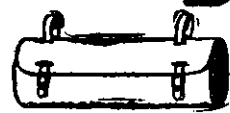
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